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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N7764A 4-Channel Variable Optical Attenuator

Agilent Keysight N7764A Variable Optical Attenuator 4 Channel The Agilent/Keysight N7764A is an N77 Series compact variable optical attenuator. OEM N77-Series datasheets specify 1260 nm to 1640 nm single-mode operation with 0 dB to 40 dB attenuation range (45 dB typical). Optical transceiver sensitivity testing, multiport component characterization, and optical network integration / ROADM span simulation. Remote controlled multi channel fiberoptic attenuator The Agilent/Keysight N7764A is an N77 Series compact variable optical attenuator. OEM N77-Series datasheets specify 1260 nm to 1640 nm single-mode operation with 0 dB to 40 dB attenuation range (45 dB typical). Optical transceiver sensitivity testing, multiport component characterization, and optical network integration / ROADM span simulation. Remote controlled multi channel fiberoptic attenuator Attenuation mode and closed loop power control mode

MODEL **Agilent / Keysight N7764A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **N7764A**	LISTING **https://aumictechlabs.com/products/n7764a-3/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N7764A is a four-channel variable optical attenuator designed for optical communication systems. This compact, remote-controlled instrument offers fast and precise attenuation and power adjustments, making it suitable for applications such as optical transceiver

testing and optical network integration testing. It is part of the Keysight N77xx-family, emphasizing space-saving design and integration of multiple functions to reduce capital expenditure and floor space. Technical Specifications Measurement Capability Settling Time: 20 ms for attenuation, 100 ms for power Attenuation Transition Speed: 0.1 to 1000 dB/s (selectable) Input Power: +23 dBm Insertion Loss: ≤ 1.2 dB System Capability Channels: Four attenuator channels in a single half-width rack unit Compatibility: Fully compatible with programs developed for Keysight 8157x and 8156x modular attenuators Software: Includes powerful and user-friendly GUI software Configuration Storage: Two instrument configurations can be stored and recalled Attenuation Specifications (for SMF 28, 1260-1640 nm) Attenuation Range: 0 to 40 dB Accuracy: * ± 0.1 dB for 0 to 10 dB attenuation * ± 0.15 dB for 10 to 20 dB attenuation * ± 0.4 dB for 20 to 40 dB attenuation Polarization Loss (PDL): * ≤ 0.15 dB for 0 to 10 dB attenuation * ≤ 0.25 dB for 10 to 20 dB attenuation * ≤ 0.5 dB for 20 to 40 dB attenuation Power Meter Specifications Power Range: -50 dBm to +20 dBm Resolution: 0.01 dB Repeatability: ± 0.025 dB Relative Accuracy: ± 0.05 dB ± 300 pW Interfaces Control: LAN, USB, and GPIB Physical and Environmental Form Factor: Half-width rack unit Operating Temperature: 5 °C to 40 °C Storage Temperature: -40 °C to 70 °C Altitude: Maximum operating altitude of 2000 m Pollution Degree: Designed for pollution degree 2 Why Choose Aumictech for Keysight N7764A? At Aumictech, we specialize in supplying optical test and measurement equipment. Whether you need precise attenuation control for your optical communication systems, reliable power level management for component characterization, or integrated solutions for network testing, our team ensures the Keysight N7764A delivers maximum performance for your application.

N7764A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Variable optical attenuator
Series Family	Keysight N77 Series
Attenuator Channels	4
Fiber Type	9/125 um SMF 28
Wavelength Range	1260 nm to 1640 nm
Attenuation Range	0 dB to 40 dB (45 dB typical)
Attenuation Resolution	0.01 dB
Power Setting Range	minus 50 dBm to plus 20 dBm
Power Setting Resolution	0.01 dB
Relative Power Setting Accuracy	plus or minus 0.05 dB class
Attenuation Settling Time Typical	20 ms for 20 dB step
Power Settling Time Typical	100 ms
Insertion Loss Typical Excluding Connectors	1.2 dB or less at 1550 nm class
Insertion Loss Including Connectors	2.2 dB or less with reference connectors
Attenuation Transition Speed	selectable 0.1 to 1000 dB/s
Maximum Safe Input Power Input Port	plus 23 dBm
Maximum Safe Input Power Output Port	less than plus 18 dBm
Optical Path Blocking Typical	45 dB
Return Loss Typical	45 dB
Monitor Power Meter Relative Uncertainty	plus or minus 0.05 dB plus or minus 300 pW
Monitor Averaging Time	2 ms to 1 s
Connector Options	FC/PC Option 021 or FC/APC Option 022
Dimensions Class	1U half rack about 372 mm x 212 mm x 43 mm
Weight Approximate	3 kg

PARAMETER	VALUE
Line Power	AC 100 to 240 V plus or minus 10 percent 50/60 Hz 60 VA max
Remote Interfaces	LAN USB GPIB
Operating Temperature	plus 5 C to plus 40 C
Attenuation	Range: 0 dB to 40 dB (45 dB typical)
Return loss	Typical: 45 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	plus 5 C to plus 40 C
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Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

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Notes
Numeric rows from Agilent/Keysight N77-Series Attenuators datasheet for N7764A single-mode tables.

Ordering Information

OPTION	DESCRIPTION
Option 021	or FC/APC Option 022

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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